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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|----------------|-------------------------|---------------------|------------------|--|
| 10/004,660 | 12/03/2001 | Hiroshi Miyajima | 15126 | 9638 | |
| 7: | 590 01/16/2003 | | | | |
| Scully, Scott, Murphy & Presser | | | EXAMINER | | |
| 400 Garden City Plaza Garden City, NY 11530-0299 | | | ALLEN, I | ALLEN, DENISE S | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 2872 | | |
| • | | DATE MAILED: 01/16/2003 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| • | | | | | | |
|---------------|---|-----------------------------|---|--|--|--|
| | | Application No. | Applicant(s) | | | |
| | | 10/004,660 | MIYAJIMA ET AL. | | | |
| | Office Action Summary | Examiner | Art Unit | | | |
| | | Denise S Allen | 2872 | | | |
| | The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| | A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status | | | | | |
| | 1) Responsive to communication(s) filed on | | | | | |
| | | – s action is non-final. | | | | |
| | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims | | | | | |
| | 4)⊠ Claim(s) <u>1-23</u> is/are pending in the application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| | 5) ☐ Claim(s) is/are allowed. | | | | | |
| | 6) | | | | | |
| | 7) ☐ Claim(s) is/are objected to. | | | | | |
| | 8) Claim(s) 1-23 are subject to restriction and/or election requirement. Application Papers | | | | | |
| | 9) The specification is objected to by the Examiner. | | | | | |
| | 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| | 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. | | | | | |
| | If approved, corrected drawings are required in reply to this Office action. | | | | | |
| | 12) The oath or declaration is objected to by the Examiner. | | | | | |
| 1 | Priority under 35 U.S.C. §§ 119 and 120 | | | | | |
| | 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | |
| | a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | |
| | 1. Certified copies of the priority documents have been received. | | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| | 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | |
| | a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | |
| Attachment(s) | | | | | | |
| 3 | Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Informal | y (PTO-413) Paper No(s) Patent Application (PTO-152) | | | |
| | Patent and Trademark Office O-326 (Rev. 04-01) Office Actic | on Summary | Part of Paper No. 5 | | | |

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1 17 and 22, drawn to a mirror rocking member for an optical deflector with a reflective-surface forming surface that has an area smaller than an area of an electric-element forming surface, classified in class 359, subclass 224.
- II. Claims 18 21 and 23, drawn to a mirror rocking member for an optical deflector with at least one hollow formed inside a movable plate, classified in class 359, subclass 224.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as a mirror rocking member for an optical deflector with no hollow formed inside a movable plate. Also in the instant case, invention II has separate utility such as a mirror rocking member for an optical deflector with a reflective-surface forming surface that has an area equal to or larger than an area of an electric-element forming surface. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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This application contains claims directed to the following patentably distinct species of the claimed invention I:

Species 1: a mirror rocking member for an optical deflector with a reflective-surface forming surface of a first portion that has a shape that is substantially inscribed with a shape of an electric-element forming surface of a second portion. Claims 2 and 3.

Species 2: a mirror rocking member for an optical deflector with a movable plate, an elastic member, and a support that are formed from a start wafer of a single-crystal silicon substrate. Claims 4-9.

Species 3: a mirror rocking member for an optical deflector with a movable plate, an elastic member, and a support that are formed from a start wafer of a silicon-on-insulator substrate. Claims 10-15.

Species 4: a mirror rocking member for an optical deflector with a driving coil extending along a periphery of a movable plate and cooperating with a permanent magnet disposed in the vicinity of the driving coil to constitute a driving means. Claim 16.

Species 5: a mirror rocking member for an optical deflector with a pair of electrodes that cooperate with a fixed electrode disposed opposite to the electrodes to constitute a driving means. Claim 17.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1 and 22 are generic for invention I.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

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thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was not made to request an oral election to the above restriction requirement.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Denise S Allen whose telephone number is (703) 305-7407. The examiner can normally be reached on Monday - Friday, 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached on (703) 308-1687. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

January 13, 2003

Denise S Allen Examiner Art Unit 2872

Audrey Chang Primary Examiner

Technology Center 2800